

TENNESSEE VALLEY AUTHORITY

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SEP 28 1988

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555

Gentlemen:

In the Matter of
Tennessee Valley Authority

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Docket Nos. 50-259
50-260
50-296

BROWNS FERRY NUCLEAR PLANT (BFN) - INSERVICE INSPECTION (ISI) PROGRAM REQUEST
FOR RELIEF (RFR) ISI-8

TVA's letter dated June 4, 1988 provided the revised ISI program for BFN units 1, 2, and 3. The changes reflected in the subject submittal were enhancements and revisions to relief requests ISI-4, ISI-5, and ISI-8. The purpose of this letter is to submit the enclosed revision to the request for relief, ISI-8.

This revision of the RFR ISI-8 includes a list of the unit 2 piping welds which have a limitation on ultrasonic volumetric examination and were examined for American Society of Mechanical Engineers (ASME) Section XI credit during the first 10-year interval. This RFR is being submitted in accordance with 10 CFR 50.55a(g).

If you have any questions, please telephone Mr. Patrick Carrier at 205/729-2689.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

R. Gridley
R. Gridley, Manager
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Enclosures
cc: See page 2

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U.S. Nuclear Regulatory Commission

SEP 28 1988

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ENCLOSURE 1

EXPLANATION FOR REMOVAL OF WELDS FROM RFR ISI-8

I. Welds removed from RFR ISI-8 listing submitted by TVA on October 4, 1982 and approved by the NRC Safety Evaluation Report (SER) issued August 30, 1983.

A. The following welds have been removed from the initial list because they were not examined for ASME Section XI credit during the first 10-year interval.

26"-GMS-2-19 Class 1 Main Steam
26"-KMS-2-25 Class 1 Main Steam
3"-KMS-2-63 Class 1 Main Steam
26"-KMS-2-76 Class 1 Main Steam
26"-KMS-2-105 Class 1 Main Steam
10"THPCI-2-82 Class 1 High Pressure Coolant Injection

B. The following welds have been removed from the initial list because it was determined from a review of the exam report, that a code scan was accomplished per IWA-2232 and Article III-4000, 1977 Edition with Addenda through Summer 1978, of ASME Section XI.

(DS) RWC-2-3 Class 1 Reactor Water Cleanup
DSRHR-2-4 Class 1 Residual Heat Removal
DSRHR-2-9 Class 1 Residual Heat Removal
RCRDS-2-3 Class 1 Control Rod Drive Hydraulic Return Line

C. Weld RCRD-2-31 has been removed from the initial list because it was removed from service - Class 1 Control Rod Drive Hydraulic Return Line (Modification). This modification capped the CRD nozzle, therefore allowing the removal of the line going to the nozzle. By removing this line the subject weld was removed and no longer needs to be inspected.

D. Class 1 Feedwater-KFW-2-26 was removed from the initial list through an error and it has been added back to the list for unit 2 with this transmittal.

II. Welds removed from the 1984 Version of the RFR ISI-8 listing.

A. The following welds have been removed from the second (1984) list because they are branch pipe connection welds six inches or less in diameter and per Table IWB-2600, Item No. B4.7, Examination Category B-J, 1974 Edition with Addenda through Summer 1975 of ASME Section XI the method of examination required is a surface examination.

GR-2-63B - Class 1 Recirculation
KR-2-1 - Class 1 Recirculation
KR-2-4 - Class 1 Recirculation
KR-2-23 - Class 1 Recirculation
KR-2-26 - Class 1 Recirculation
KR-2-49 - Class 1 Recirculation
KR-2-53 - Class 1 Recirculation

ENCLOSURE 1 (Cont'd)

- B. Weld DHS-2-6 has been removed from the second list because it was removed from service - Class 1 Residual Heat Removal (Modification). This modification removed the Head Spray System. Removal of this system and subsequent piping eliminated the subject weld. Therefore, this weld no longer needs to be inspected.
- C. Longitudinal weld scan limitations were previously reported within RFR ISI-8 by utilizing the circumferential weld number, which intersected the 12 inches of long seam required to be examined. The circumferential weld seam numbers have been removed from the list and replaced with a longitudinal seam identification number as indicated below.

Circumferential Weld No.

Replaced with Longitudinal Weld No.

GR-2-3 - Class 1 Recirculation
GMS-2-1 - Class 1 Main Steam
GMS-2-9 - Class 1 Main Steam
DRHR-2-4 - Class 1 Residual Heat Removal

GR-2-3-LS2
GMS-2-2-LS
GMS-2-10-LS
DRHR-2-3-LS

REQUEST FOR RELIEF ISI-8

REVISION 2

<u>Components:</u>	Pressure-Retaining Welds in Piping
<u>Class:</u>	1 and 2
<u>Function:</u>	Pressure-retaining component
<u>Test Requirement:</u>	Volumetric examination of longitudinal, circumferential, pipe branch connection and valve body welds, examination categories B-J, B-F, C-F, and B-M-1.
<u>Basis for Relief:</u>	In some cases it will be impractical to inspect all welds in accordance with paragraph T-532 of Article 5, Section V, of the ASME Code, i.e., nonremovable hanger interference or valve and pump casings adjoining the welds. These welds will be noted on the ultrasonic examination data sheets.
<u>Alternate Inspection:</u>	In addition to the visual examination performed during system leakage and hydrostatic pressure tests, a "best effort" ultrasonic examination will be performed. Also, a surface examination will be performed on accessible areas of the weld(s).
<u>Reporting:</u>	The tables attached hereto provide a listing of the welds which are covered by this request for relief. Units 1 and 3 welds will be added as the end of the first 10-year interval for those units approaches.

TABLE 1

REQUEST FOR RELIEF ISI-8

UNIT 1 WELDS REQUIRING ALTERNATE SURFACE EXAMINATION WHEN ACCESSIBLE

WELD IDENTIFICATION

SCAN LIMITATION

REASON

Later

Later

Later

TABLE 2
 REQUEST FOR RELIEF ISI-8
UNIT 2 WELDS REQUIRING ALTERNATE SURFACE EXAMINATION WHEN ACCESSIBLE

<u>Weld Identification</u>	<u>Scan Limitation</u>	<u>Reason</u>
TCCW-2-1	3/No Scan; 4/5:30-7:00	3/Penetration; 4/Weld-O-Let
TCCW-2-5	4/No Scan; 3/6:30-7:30	4/Penetration; 3/2" pipe attachment
DCS-2-3	3 & 4/No Scan	3/Valve Geometry; 4/Penetration
DCS-2-12	3 & 4/No Scan	3/Valve Geometry; 4/Penetration
TCS-2-406	4/No Scan; 3/2:00	4/Valve Geometry; 3/Welded Brace
TCS-2-421	3/No Scan; 4/8:30-9:00	3/Valve Geometry; 4/Instrument Line
RCRD-2-49	3/No Scan; 4/5:00-7:00	3/Valve Geometry; 4/Inner Radius
RCRDS-2-2	3 & 4/No Scan	3 & 4/Tee & Reducer Geometry
KFW-2-26	3,4,5,&6/12:00	3-6/1" Pipe Attachment
KFW-2-28	3,4,5,&6/12:00	3-6/1" Pipe Attachment
N4A-SE	All scans limited	All/Safe-End Configuration
N4B-SE	3,4,5,&6/8:00 & 9:00	3-6/ 3/4" Diameter Welded Pads
N4D-SE	4/No Scan; All/12:00-3:00, 4:00-6:00	4/Configuration: All/ Sensor Line Attachments
N4E-SE	4/No Scan; All/8:00-9:00, 12:00-3:00, 4:00-6:00	4/Configuration; All/ Sensor Line Attachments

TABLE 2 (continued)
 REQUEST FOR RELIEF ISI-8
UNIT 2 WELDS REQUIRING ALTERNATE SURFACE EXAMINATION WHEN ACCESSIBLE

<u>Weld Identification</u>	<u>Scan Limitation</u>	<u>Reason</u>
N4F-SE	All scans limited	All/SAFE-End Configuration
THPCI-2-72	3/No Scan; 4/5:00-7:00	3/Valve Geometry; 4/Brace
GMS-2-2	3/No scan; 4/ 1/2 node penetration	3/Valve; 4/Penetration
GMS-2-2-LS	7,8,9,&10/2" thru 12"	7-10/Penetration
GMS-2-10-LS	7,8,9,&10/4" thru 12"	7-10/Penetration
KMS-2-25-LS1 @ 6:00	11,12,13,&14/No Scans	11-14/Covered by I-beam
KMS-2-54-LS	11,12,13,&14/8" thru 12"	11-14/Non-Removable Insulation
DRWC-2-1A	3 & 4/No Scan	3/Reducer Geometry; 4/Valve Geometry
DRWC-2-2	4/No Scan; 3/11:30-12:30	4/Valve Geometry; 3/1" Weld-O-Let
DRWC-2-3	3/No Scan; 4/10:00-11:00, 5:30-6:30	3/Valve Geometry; 4/Vent Pipe & Instrument Line
GR-2-3-LS2 @ 12:00	11,12,13,&14/No Scans	11-14/Support Lug

TABLE 2 (continued)
 REQUEST FOR RELIEF ISI-8

UNIT 2 WELDS REQUIRING ALTERNATE SURFACE EXAMINATION WHEN ACCESSIBLE

<u>Weld Identification</u>	<u>Scan Limitation</u>	<u>Reason</u>
GR-2-8	3 & 4/No Scan	3 & 4/Cross to Tee & Tee Geometry
GR-2-34	3 & 4/No Scan	3 & 4/Cross to Tee & Tee Geometry
GR-2-56	4/No Scan; 3,5,&6/ 11:45 to 12:30 & 10:30	4/Configuration; 3-6/Weld Attachment
GR-2-63A	No Scans	Seal Welded Blind Flange
KR-2-51-LS	7,8,9,&10/6" thru 12"	7-10/Rigid Restraint
DRHR-2-3	3 & 4/No Scan	3/Valve Geometry; 4/Penetration
DRHR-2-3-LS	7,8,9,&10/4" thru 12"	7-10/Penetration
DRHR-2-5	4/No Scan; 3/11:00-1:00	4/Valve Geometry; 3/Support Attachment
DRHR-2-12	3 & 4/No Scan	3/Valve Geometry; 4/Penetration
TRHR-2-110	3,4,5,&6/6:00	3-6/Non-Removable Support
TRHR-2-262	3 & 4/11:00-1:00 & 3:00	3 & 4/Hanger Mounting Bracket & Catwalk Support
TRHR-2-462	3,4,5,&6/5:00-7:00	3-6/Welded Support

TABLE 3
REQUEST FOR RELIEF ISI-8
UNIT 3 WELDS REQUIRING ALTERNATE SURFACE EXAMINATION WHEN ACCESSIBLE

<u>Weld Identification</u>	<u>Scan Limitation</u>	<u>Reason</u>
Later	Later	Later